

CLAIMS

1. An arm for an elastic doll, which arm is formed of a molding material by molding, characterized in that:
a core made of metal is arranged in the arm;
said core being provided on a distal end thereof or a portion thereof positioned in proximity to said distal end with a spacer having a sectional area smaller than that of the arm;
said spacer being made of a material compatible with said molding material for the arm.

2. An arm for an elastic doll as defined in claim 1, wherein said spacer is provided on a periphery thereof with tapered projections.

3. An arm for an elastic doll as defined in claim 1 or 2, wherein said core is formed thereon with a detachment-preventing section for preventing detachment of said spacer therefrom.

4. An arm for an elastic doll as defined in claim 3, wherein said core is formed at said distal end thereof with a bent section; and

said spacer is formed with an engagement hole in which said bent section is engagedly fitted.

5. A method for molding an arm for an elastic doll, comprising the steps of:

forming a molding space for molding a portion of the arm extending from a shoulder thereof to a hand thereof in a mold;

arranging a metal core in said molding space so as to extend along a center of said molding space, said core being fixed at one end thereof in a proximal section of said molding space which corresponds to a proximal portion of the shoulder of the arm; said core being provided at the other end thereof or a portion thereof positioned in proximity to the other end with a spacer for keeping said core spaced at a predetermined interval from an inner surface of said molding space; and

injecting a molten molding material into said molding

space;

said spacer being made of a synthetic resin material which is compatible with said molding material and has a melting point equal to or below a molding temperature of said molding material.

6. A method for molding arms for an elastic doll, comprising the steps of:

forming a pair of molding spaces for molding portions of the arms each extending from a shoulder of the arm to a hand thereof in a mold including mold members, said molding spaces being formed opposite to each other to permit proximal sections thereof which respectively correspond to proximal portions of the shoulders of the arms to face each other;

arranging a metal core in said molding spaces so as to continuously extend along a center of said molding spaces; said core being provided at each of ends thereof or a portion thereof positioned in proximity to the end with a spacer for keeping said core spaced at a predetermined interval from inner surfaces of said molding spaces; and

injecting a molten molding material into said molding spaces;

said core being formed at a portion thereof positioned between said molding spaces with a bent section;

said mold members having respective mating surfaces, one of which is formed thereon with projections engaged with said bent section of said core and opposite sides of said core to stationarily hold said core;

said spacer being made of a synthetic resin material which is compatible with said molding material and has a melting point equal to or below a molding temperature of said molding material.

7. A method for molding arms for an elastic doll, comprising the steps of:

forming a pair of molding spaces for molding portions of

the arms each extending from a shoulder of the arm to a hand thereof in a mold including mold members, said molding spaces being formed opposite to each other to permit proximal sections thereof which respectively correspond to proximal portions of the shoulders of the arms to face each other; and

arranging a metal core in said molding spaces so as to continuously extend along a center of said molding spaces while keeping both side portions of said core respectively projected into said molding spaces, joining said mold members of said mold to each other so as to hold said core fixed on mating surfaces of said mold members to keep both sides of said core floated in said molding spaces; and

injecting a molten molding material into said molding spaces.

8. A method for molding an arm for an elastic doll, comprising the steps of:

forming a molding space for molding a portion of the arm extending from a shoulder of the arm to a hand thereof in a mold, the shoulder of the arm being provided with an engagement groove adapted to be engaged with a trunk of a doll;

arranging a metal core in said molding space so as to extend along a center of said molding space and holding said core at a predetermined position in said molding space by a holding means;

arranging a support rod at a site in said molding space corresponding to said engagement groove, said support rod functioning to support said core against an injection pressure of a molding material during molding of the arm; and

injecting the molten molding material into said molding space.

9. A method for molding an arm or arms for an elastic doll as defined in claim 5 or 6, wherein the shoulder of the arm is provided with an engagement groove adapted to be engaged with a trunk of a doll;

5 further comprising the step of arranging a support rod at a site in said molding space corresponding to said engagement groove, said support rod functioning to support said core against an injection pressure of a molding material during molding of the arm.

10 10. A method for molding arms for an elastic doll as defined in claim 6 or 7, further comprising the steps of:

separating said mold members from each other after molding of the arms; and

removing a portion of the core exposed from the shoulder of each of the arms.

11. A mold for insert molding of arms for an elastic doll, comprising:

first and second split mold members, said first and second split mold members being formed therein with molding spaces each having a configuration corresponding to a configuration of a portion of each of the arms extending from a shoulder of the arm to a hand thereof, respectively, said molding spaces of said first and second split mold members being formed opposite to each other while being spaced at an interval from each other to permit proximal sections thereof which respectively correspond to proximal portions of the shoulders of the arms to face each other;

said first and second split mold members having mating surfaces; and

a fixing means for fixing a metal core for connecting both arms to each other;

said fixing means being formed on said mating surfaces between said molding spaces.

12. A mold for insert molding of arms for an elastic doll as defined in claim 11, wherein said fixing means is constituted by a recess for receiving said core therein and constructed so as to fix said core at three points.

13. A mold for insert molding of arms for an elastic

doll as defined in claim 11, wherein said core has a bent section arranged between said molding spaces of each of said first and second split mold members; and

said fixing means includes a projection provided on one of said first and second split mold members so as to be engaged with said bent section of said core.

14. A mold for insert molding of arms for an elastic doll as defined in claim 13, wherein said fixing means further includes a pair of second projections arranged at each of a plurality positions on said one of said first and second split mold members;

each pair of said second projections being arranged to interposingly hold opposite sides of said core therebetween.

15. A mold for insert molding of arms for an elastic doll as defined in claim 11, wherein each of the arms is provided at the shoulder thereof with an engagement groove adapted to be engaged with a trunk of a doll;

further comprising a support rod for supporting said core against an injection pressure of a molding material during molding of the arms;

said support rod being arranged at a site in each of said molding spaces corresponding to the engagement groove.

16. A mold for insert molding of arms for an elastic doll as defined in claim 11, wherein said mating surface of one of said first and second split mold members is provided thereon with a temporary holding means for temporarily holding said core thereon.

17. A mold for insert molding of arms for an elastic doll as defined in claim 11, further comprising a pin member for forcing out said core from said molding spaces after molding of the arms, said pin member being arranged so as to be permitted to retractably project from said mating surface of one of said first and second split mold members.

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